

Amdocs Private Wireless Network Solution



Accelerating private wireless networks with end-to-end comprehensive network services and equipment

Evolving challenges in coverage, capacity, reliability and control have grown beyond the capabilities of traditional public networks. While private wireless networks have long offered a partial solution, traditional models are no longer sufficient in today's environment of rapid technological change and innovation.

Enter a new era of opportunity

A convergence of ecosystem developments is today enabling organizations to more easily and cost-effectively deploy private wireless networks:

- **Spectrum availability** for private networks, use cases and applications
- **Proven providers** of network engineering services and solutions, with end-to-end 'blueprints' and practices for network design, rollout (including integration), testing and operations
- **Expanded open ecosystem** for RAN and core network components (e.g. TIP, O-RAN, Open Source Core)
- **5G standards/technology** such as network slicing and edge computing

Partner with Amdocs for this journey

Whether you're a public utility, manufacturing company, healthcare provider or communications service provider, we have the advanced software and consulting service capabilities, combined with deep network expertise to navigate the complexities of tailoring, rolling out and operating a private wireless network.

By bridging the worlds of enterprise IT, IoT and LTE/5G private networks, we address your organization's unique communications and connected-applications requirements, freeing you to efficiently run your operations and meet customer needs.

Solution components

- **Network planning services (site survey, RF design, coverage and capacity dimensioning):** Use case investigation and analysis, requirement specification and evaluation, selection of wireless network technologies and solutions
- **Reseller & systems integrator:** Vast hardware and software partner ecosystem to integrate all necessary network components (RAN, core, spectrum)
- **Network deployment services:** End-to-end engineering services, covering planning, design, integration and optimization of components across RAN and core domains, as well as software-powered automation for faster and more efficient rollouts
- **Spectrum access system (USA only):** FCC-approved vendor for 3.5Ghz, providing capabilities such as radio frequency channel allocation and interference protection
- **End-user device management:** Comprehensive eSIM cloud management for end-user and M2M devices, supporting activation, error handling/remediation, profile inventory and system health management
- **Network management:** Full portfolio of network management solutions, including network assurance, NOC operations, triage and SLA management, all based on advanced network monitoring and analytics tools

Wide variety of use cases across verticals and segments

- **Smart utilities:** Leverages private networks for highly reliable and secure smart grid automation. Specific use cases include smart metering (use measurement, tampering detection, quality monitoring), distribution automation (equipment health monitoring, reacting to outages/fluctuations, feeder switch/capacitor/voltage regulator monitoring) and surveillance (detect/track/notify of perimeter intrusion, access authentication, infrastructure monitoring with drones).
- **Venues and Campuses:** Supports a variety of services and IoT applications. Specific use cases include reliable voice/data (in-building coverage, campus coverage, VoIP, wireless LAN), enterprise applications (smart building IoT, video surveillance, video chats, HD video streams) and roaming to public networks (off-campus, seamless service transition, network sharing).
- **Smart manufacturing:** Enables highly automated and reliable industrial processes. Specific use cases include motion control (printing machines, machine tools, packaging), mobile robots (cooperative motion control, video-operated remote control) and process automation (monitoring, corrective actions).

Learn more

[Contact us](#) to discover how Amdocs Private Network Solutions can help your organization extract the maximum from your private wireless network.